

JPRS 76821

14 November 1980

# China Report

POLITICAL, SOCIOLOGICAL AND MILITARY AFFAIRS

No. 137

Selections from JIEFANGJUN HUABAO, Nos 9, 10, 1980

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SELECTIONS FROM JIEFANGJUN HUABAO, Nos 9, 10, 1980

## CONTENTS

## MILITARY AND PUBLIC SECURITY

|  |    |
|--|----|
| Voyage of Glory for the Nation<br>(No 9) .....   | 1  |
| Guangxi Border Defense Line<br>(No 9) .....  | 15 |
| Battalion Employs Self-Propelled Rocket Launchers<br>(No 9) .....                        | 18 |
| Unidentified Unit Carries Out Training in Minimum Altitude Flying<br>(No 9) .....        | 21 |
| Xizang Develops Geothermal Energy<br>(No 10) .....                                       | 25 |
| Artillery Manufacturing Industry Described<br>(No 10) .....                              | 28 |
| Visit to a Guided Missile Technical School<br>(Zhang Jucheng, Luo Chunrong; No 10) ..... | 32 |
| Organize Training From the Needs of Actual Combat<br>(Wang Limin, et al.; No 10) .....   | 38 |
| First Trip to Pacific<br>(No 10) .....   | 42 |

## MILITARY AND PUBLIC SECURITY

### VOYAGE OF GLORY FOR THE NATION

Beijing JIEFANGJUN HUABAO [LIBERATION ARMY PICTORIAL] in Chinese No 9, 1980 pp 2-7

[Text] During China's South Pacific carrier rocket launch test, two brand-new "Yuanwang" survey ships were especially spectacular. This ship has a high multideck silhouette, and the electric power it uses could supply the needs of a city of several hundred thousand people, while its store of fuel and water would enable it to sail to the far corners of the earth. Giant antennas tower on the decks, looking like silver platters, golden hairpins, plum blossoms and xylophones. Their emissions can probe the secrets of the universe. The motherland put the newest scientific and technological results of the 1980's into the ship and made it an electronic world. People praise this ship as a floating maritime science city.

Although what the "residents" here eat is ordinary, what they see are the stars, sun and moon and what they talk about are the universe, the earth, the ionosphere and man-made satellites. The old-timers and the newcomers aboard the ship form a combat collective, and they are doing something which none of our predecessors have done before. In the central control unit, the various instruments accurately indicate, record and process the various signs, indications and data; the meteorological departments pick up cloud sightings from satellites and probe for information beyond the highest heavens; the communications antennas send out powerful signals to create a liaison net between the fleet and the motherland; and the radar revolves and the optical instruments open their eyes. All this is like an orchestra conducted in unison playing a symphony of modern science.

On the vast Pacific, the "Yuanwang" moves ahead at a speed of 15 or more knots an hour. The typhoon roars outside the portholes, and huge avalanche-like waves buffer the ship. The scientific and technical workers fighting here are using their skilled arms and hands and sharp minds to probe the secrets of nature to bring glory to the motherland through a spirit of selflessness, and the people will cherish the memory of their merits and achievements forever.

The appearance of this maritime science city is the pride of the Chinese nation, and it is also a symbol of our country courageously forging ahead towards modernization.

# 为国争光的航程

“远望”号测量船在南太平洋

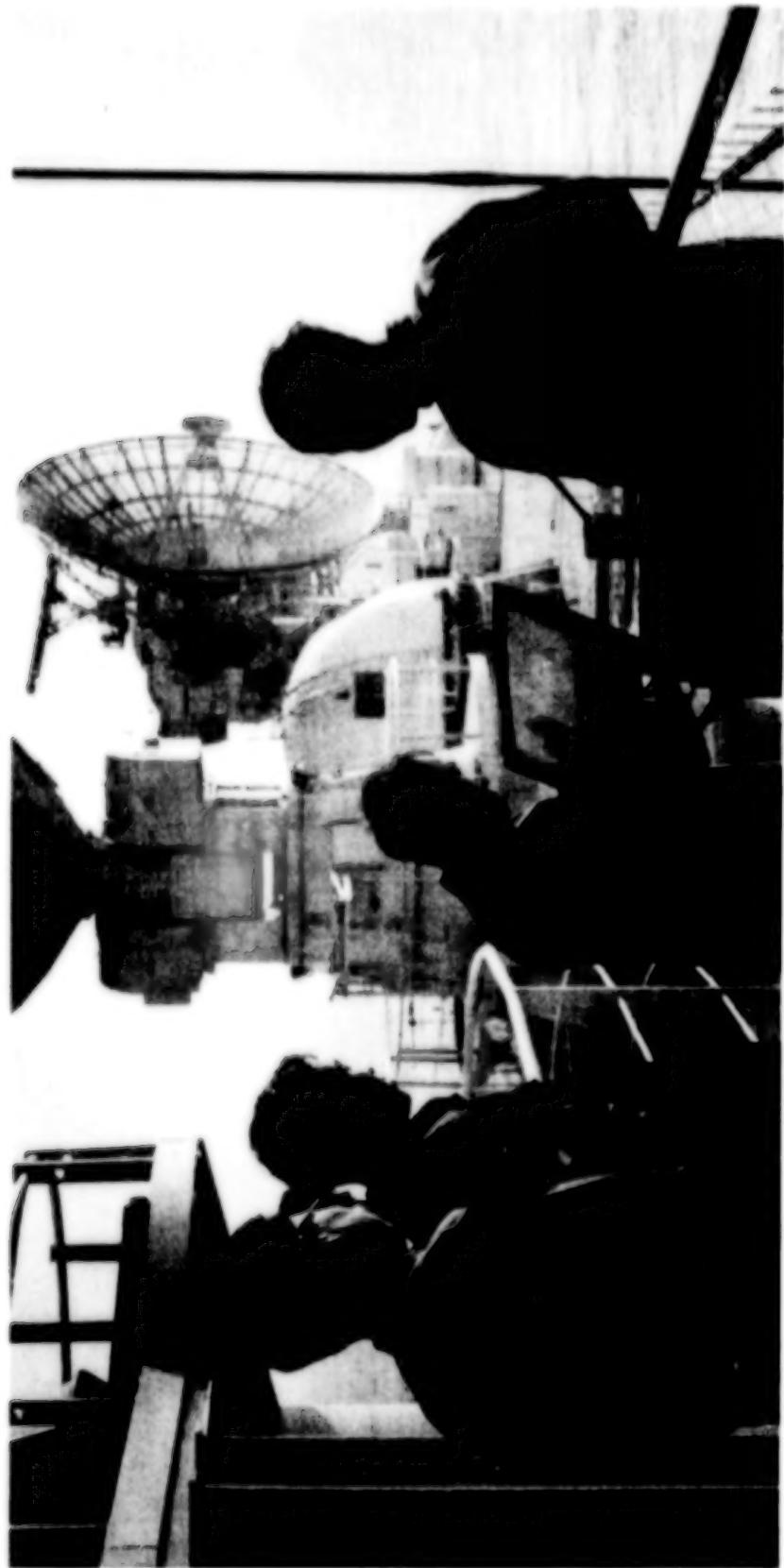




The "Yuanwang" survey [range instrumentation] ship, designed and built by China, braves wind and waves as it moves towards the operations area



Radio transmissions in the Pacific link Beijing and the operations area

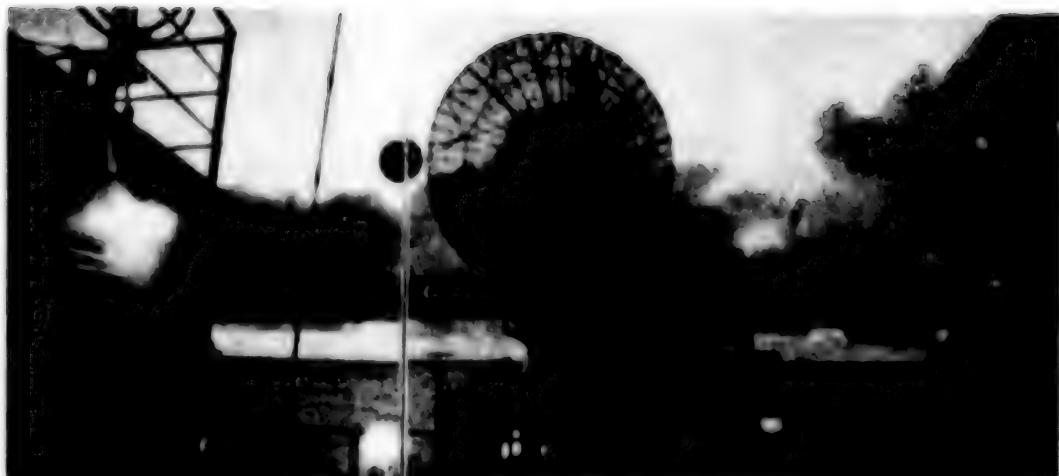


Painting a Pacific scene while collecting meteorological data on changing conditions



There will be signs of success during the long ocean voyage





(2)



(3)

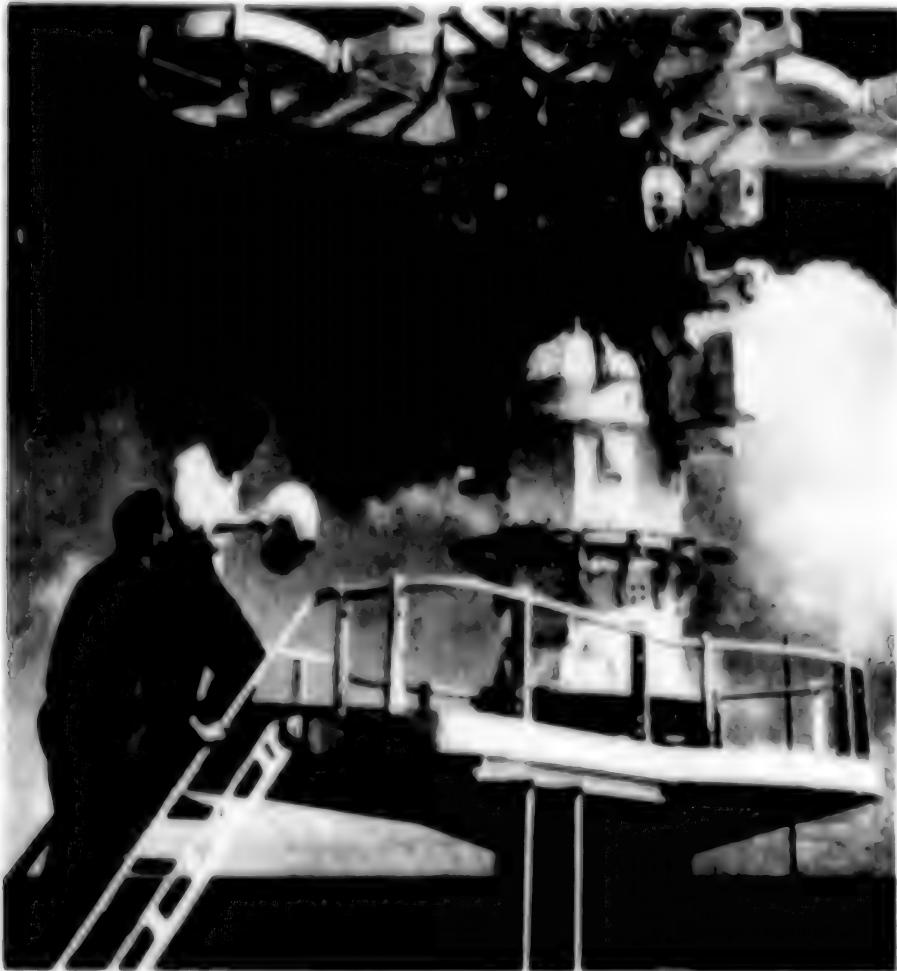
**Caption 2. Radar antennas constantly revolve day and night.**

**Caption 3. The strong power supply originates here, and it is never interrupted for an instant**



**Caption 4.** The trajectory of the missile's movements in the highest heavens can be photographed from this instrument chamber resembling a large bowl

**Caption 5.** The forest of antennas on the deck is like a maritime science city pavilion



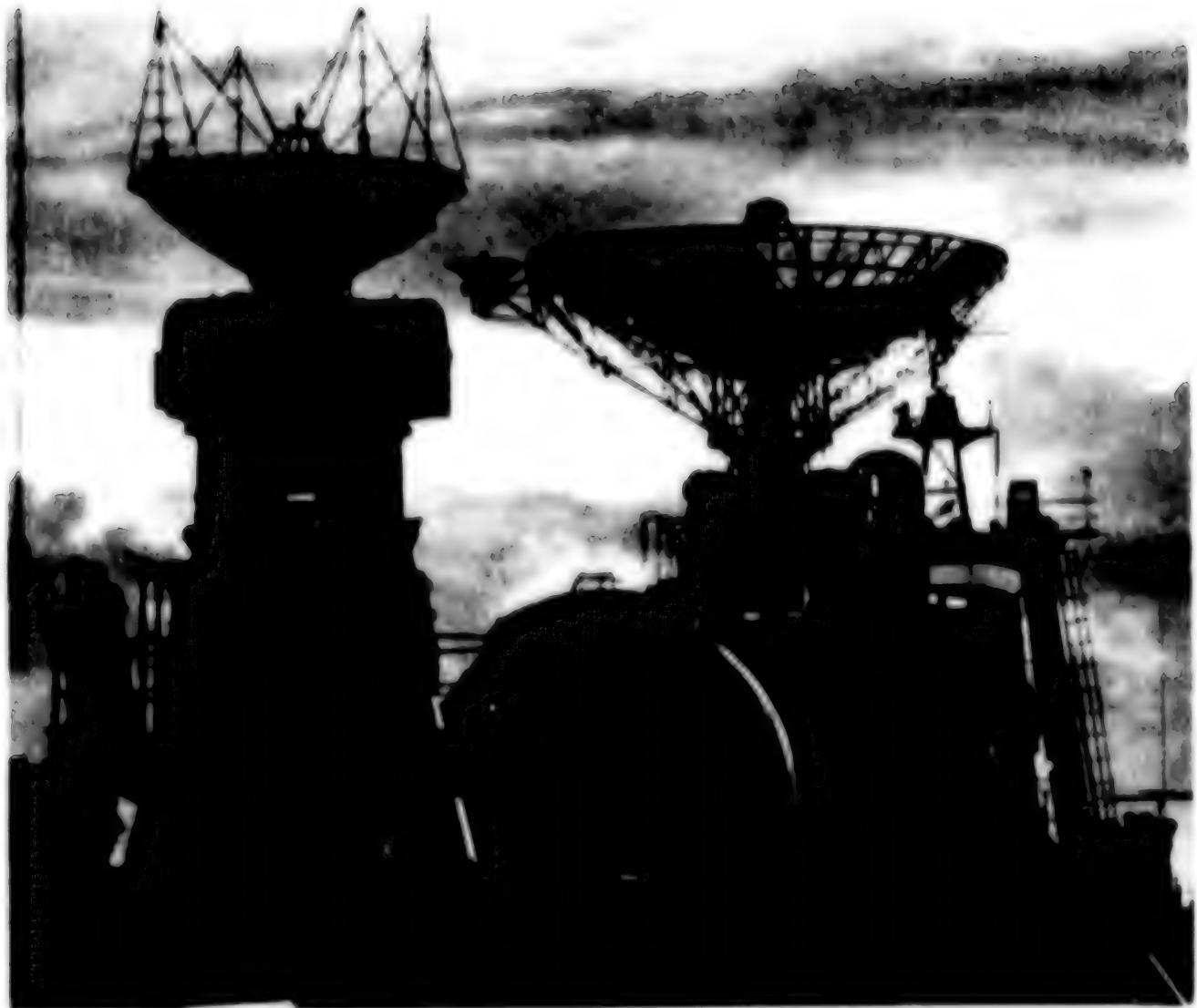
Checking the antennas and ensuring the proper functioning of the equipment



**Scientists and technicians are always up on weather conditions to provide scientific data on the carrier rocket test**



Like sentries at sea, various ships stand by to ensure that the test will proceed safely and without a hitch.



Various scientific instruments aboard the ship probe the secrets of the universe

CSO: 4005



MILITARY AND PUBLIC SECURITY

GUANGXI BORDER DEFENSE LINE

Beijing JIEFANGJUN HUABAO [LIBERATION ARMY PICTORIAL] in Chinese No 9,  
1980 pp 10-11

[Photo captions]



The "Heroic Radar Station" towers over the Guangxi border defense line to defend the motherland's territorial air space around-the-clock



Tents in the mountain woods. This is the combat and living area of the border defense fighters

## MILITARY AND PUBLIC SECURITY

### BATTALION EMPLOYS SELF-PROPELLED ROCKET LAUNCHERS

Beijing JIEFANGJUN HUABAO [LIBERATION ARMY PICTORIAL] in Chinese No 9, 1980 pp 18-19

[Article: "Swift and Awesome Rocket Launchers"]

[Text] The self-propelled rocket launcher is a type of weapon that is highly mobile, awesome in firepower and has a tremendous capacity to destroy a target area. To use this type of weapon, it is necessary to have skills in driving a vehicle, using artillery and making radio contacts. After the 3d battalion of a certain unit had been armed with the weapon, the commanders and fighters raced against every minute and second to rigorously train, and they quickly mastered the methods of using the self-propelled rocket launcher. During a particular mission, this battalion was in charge of mounting a swift breakthrough. While passing through an area of varied terrain, they came across mud water that came up above the vehicle tracks. But by virtue of quality training during peacetime, the drivers calmly and boldly opened up the throttle, kept the running speed under control and passed the dangerous area to timely reach the firing position. With concentrated firing attacks, the various companies zeroed in with precision, loaded the rocket launchers quickly and fired without a single round missing the target. By following reports from the forward observation post, the firings turned the target area into a sea of fire. Up and down the entire battalion, the units successfully advanced, made precision firings, effectively carried out joint operations and worked well together to outstandingly complete the mission, thereby winning a collective meritorious award, second class.

(1)



(2)



Caption on following page



**Caption 1. Taking swift and precise aim to zero in on the target**

**Caption 2. Moving smoothly through mountain terrain and rivers**

**Caption 3. Carrying out a firing attack with awesome firepower**

## MILITARY AND PUBLIC SECURITY

### UNIDENTIFIED UNIT CARRIES OUT TRAINING IN MINIMUM ALTITUDE FLYING

Beijing JIEFANGJUN HUABAO [LIBERATION ARMY PICTORIAL] in Chinese No 9, 1980 pp 20-21

[Article: "Minimum Altitude Flying"]

[Text] An unidentified air unit has conscientiously studied the characteristics of a future war to meet the needs of modern warfare and has actively carried out tactical training for minimum-altitude flying to fully bring into play our aircraft's minimum-altitude flying capabilities to attain the aim of conquering and defeating the enemy by concealment and surprise.

This unit is stationed in a mountain region where complicated terrain features and changeable weather conditions exist, and carrying out minimum-altitude flying can often run into difficulties. But since they have proceeded from the needs of actual combat, carried out work based on a scientific attitude, stressed the importance of "strictness" in setting about doing things--that is, theories strictly examined, aircraft strictly checked, weather conditions strictly ascertained, sound physical condition strictly maintained and commands strictly issued--as well as having devoted attention to summing up experience and gathering materials, they were able to successfully carry out minimum-altitude flying.

Not long ago, the upper level conducted an evaluation of this unit. Under the situation of complicated terrain features and changeable weather conditions, the unit launched a surprise attack by flying at minimum altitude. They flew an air route which passed through mountain valleys and then they broke out of the cloud cover over the target. Based on requirements, they had successfully completed the mission. By the time the other side discovered them, it was too late to take countermeasures for the unit was already on its way back to the base like a flash of lightning.



Smart, composed and highly skilled pilots flying their planes through mountain valleys and triumphantly returning to base



Doing everything possible to overcome difficulties, a signal unit makes full use of existing equipment to ensure smooth flight control contacts



Learning from experience where veterans lead new recruits, and veteran comrades tell new pilots their own experiences by using sand tables



CSO: 4005

Devoting full effort to repeated drills, a pilot grasps the essentials of minimum-altitude flying under low altitude atmospheric conditions

## MILITARY AND PUBLIC SECURITY

### XIZANG DEVELOPS GEOTHERMAL ENERGY

Beijing JIEFANGJUN HUABAO (LIBERATION ARMY PICTORIAL) in Chinese No 10, Oct 80  
pp 2, 4, 5

[Excerpts] At the edge of the foothills of Mt Nyainqntanglha, which is snow covered year-round, and approximately 90 kilometers northwest of the city of Lhasa, is the broad and flat expanse of the Yangbajain Basin. In the middle of the basin is the famous Yangbajain thermal field.

Legend had it that long, long ago the mist would spread out like a vast expanse of gossamer every morning over the broad hot-water lake in the eastern part of the thermal field. At this time, the beautiful wife and daughters of the god of Mt Nyainqntanglha would come to the lake to bathe. It was also said that the god of the mountain had a golden lantern, and if he was happy he would hang it high over the lake, so the light from the lantern would illuminate the lake, the thermal field, and the snowy mountain, whereupon Yangbajain would be transformed into an earthly paradise, with fresh flowers blooming everywhere and myriad birds singing in chorus. However, in the eternal dark age that was ancient Xizang, the god of the mountain was never happy, and the herdsmen of the Yangbajain Basin were forever bemoaning their bitter lot.

In 1951 Xizang's history turned over a new page. The party Central Committee sent a geological survey team along with the advancing PLA. Led and motivated by China's eminent geologist Li Siguang, the geological workers carried out a number of extensive scientific surveys of the Yangbajain thermal field. In March of 1975, the first thermal well on the Chinese mainland was completed here. Surveys have shown that the natural flow of Yangbajain is 107,300 kilocalories/second, and the heat emitted every year is equivalent to burning 470,000 tons of standard coal. In addition to power generation, this geothermal energy can be widely used in industry, agricultural sidelines and in the people's lives. In September of 1975, Comrade Hua Guofeng led a Central Committee delegation to Xizang and gave instructions to "complete the Yangbajain geothermal power station as quickly as possible." Group after group of Chinese and Tibetan technical personnel and workers came here from Beijing, Qingdao, Sichuan and various places in Xizang, and dozens of retired PLA soldiers volunteered to come to Yangbajain. They cooperated closely and strove selflessly for the early completion of the geothermal power station.

The thousand-year-old myth has finally become a reality. In October 1977 a trial geothermal power station with an installed capacity of 1 megawatt was completed and went into operation. The "golden lantern" that people had dreamed of was finally hanging over the thermal field.



Bursting from the earth, steam columns shoot several meters skyward to form rainbows in the sunlight--a splendid sight.



Trial operation of the geothermal power plant at night falls

## MILITARY AND PUBLIC SECURITY

### ARTILLERY MANUFACTURING INDUSTRY DESCRIBED

Beijing JIEFANGJUN HUABAO (LIBERATION ARMY PICTORIAL) in Chinese No 10, 1980 pp 6-7

[Article: "Let the Artillery Roar"]

[Text] Artillery has played an important role in previous wars and thus has been referred to as the "God of War."

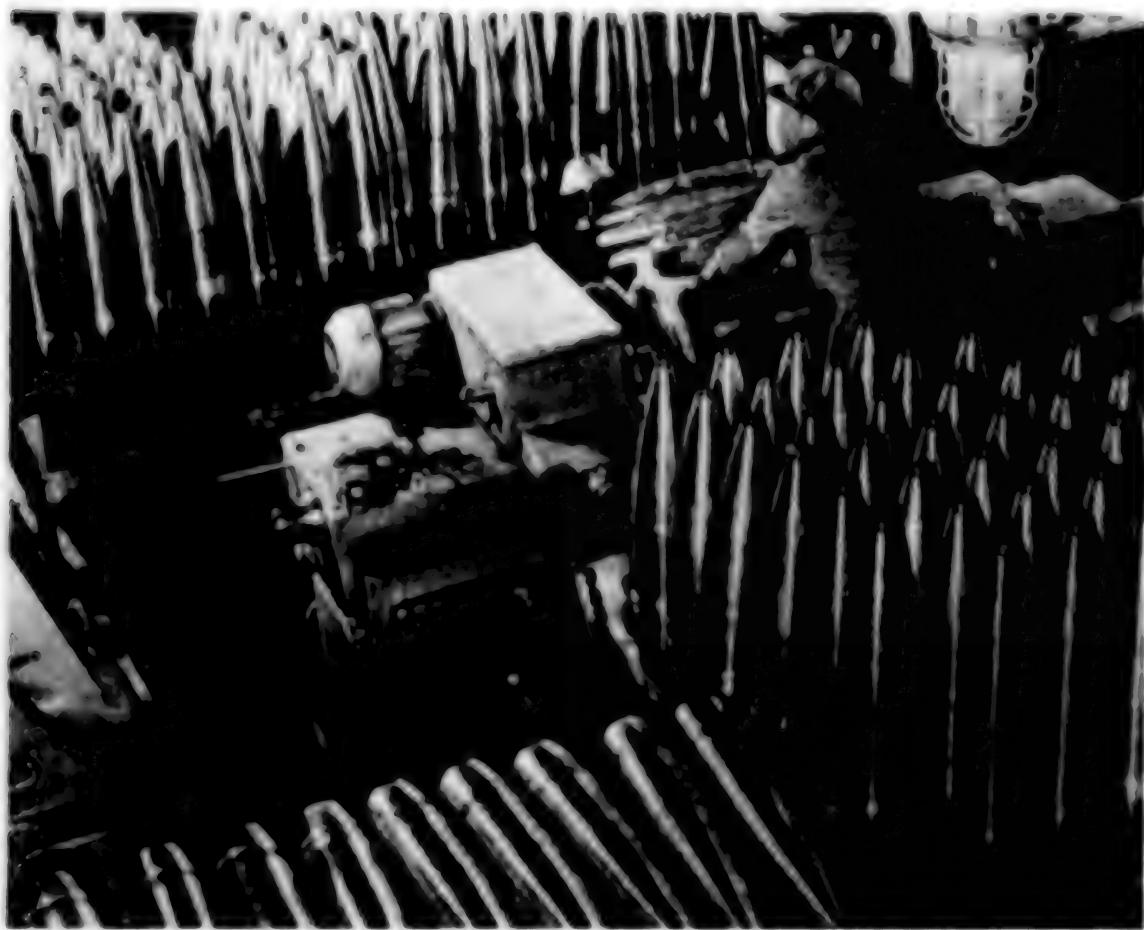
China's artillery manufacturing industry was established on the basis of the needs of the revolutionary war and was expanded in step with the war's development. Early on during the period of the anti-Japanese war, our ordnance factories based behind enemy lines produced such things as mortars, mortar shells and land mines and had a certain production capacity. During the liberation war period, the artillery industry was further expanded. After the founding of the country, an effort was begun to establish our own fairly comprehensive artillery manufacturing industry and corresponding departments for artillery research and design. During the early 1960's, our country's production capability and technology for many types of artillery attained a certain capacity and standard. However, the artillery industry suffered extremely serious damage during the 10 years of catastrophe in which the pace of development was hindered. As a result, the gap between us and the advanced world level widened. After the smashing of the "gang of four," the broad masses of staff members and workers of the artillery industry struggled head-on to catch up with advanced world levels and to speed up even more advancing the modernization of national defense. They exerted unremitting efforts and achieved marked successes. We believe that the artillery manufacturing industry will soon be able to equip the units with the best artillery so that the heroic PLA will be a like a tiger that has grown wings and be victorious in every battle, and so that our artillery will continue to give play to its power as the "God of War" in a future war against aggression.



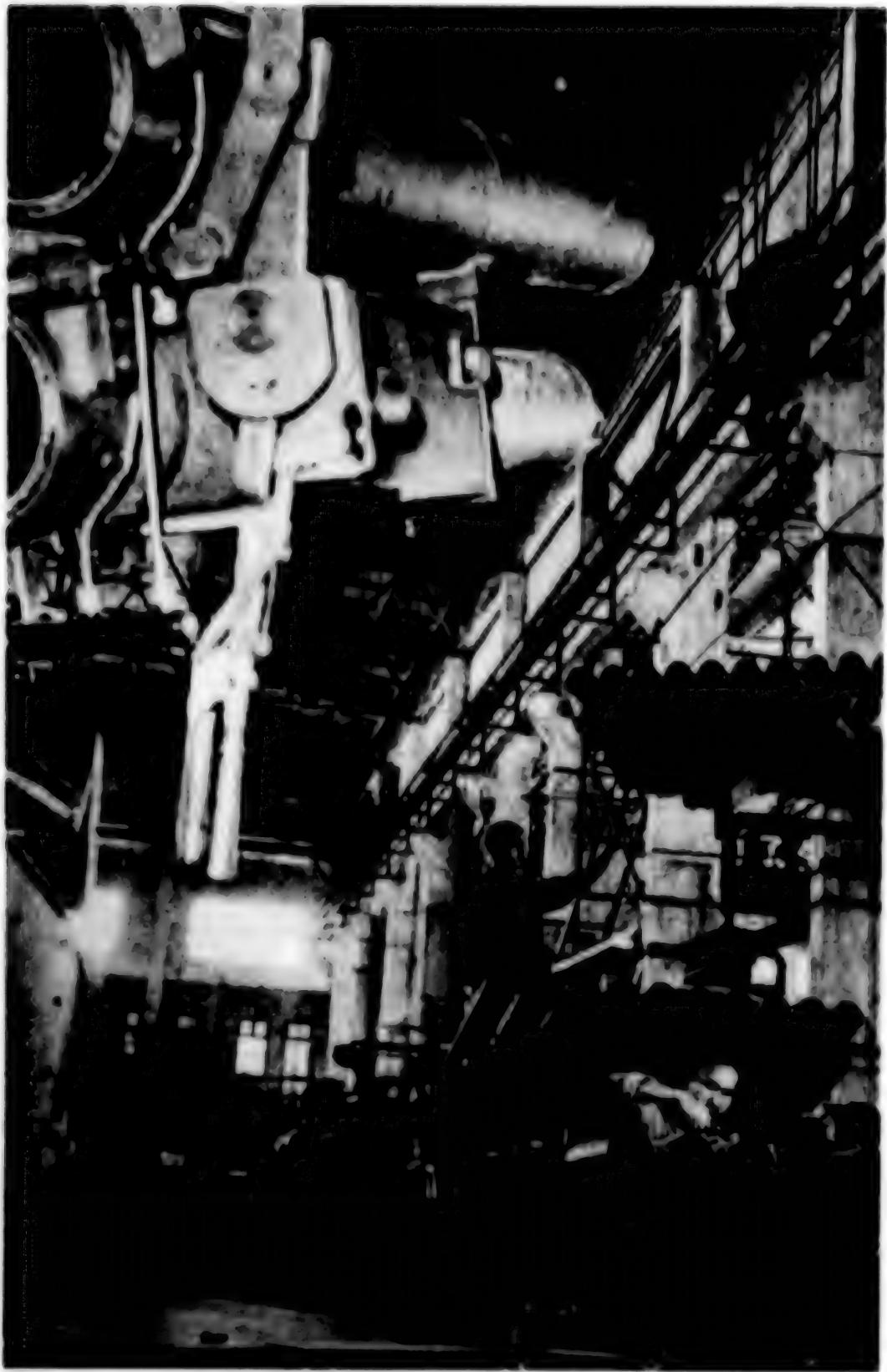
China-built long range cannons



**Carrying out magnetic flaw detection on big-bore anti-personnel and blasting kowitzer shells**



**A section of the large-shell cartridge mechanical processing workshop**



Multiple-tube rocket launcher main assembly workshop

CSO: 4005

## MILITARY AND PUBLIC SECURITY

### VISIT TO A GUIDED MISSILE TECHNICAL SCHOOL

Beijing JIEFANGJUN HUABAO [LIBERATION ARMY PICTORIAL] in Chinese No 10, 1980 pp 10-11

[Article by Zhang Jucheng [1728 1565 2052], Li Shuliang [2621 2579 5328] and Luo Chunrong [5012 2504 2837]: "A Visit to a Guided Missile Technical School"]

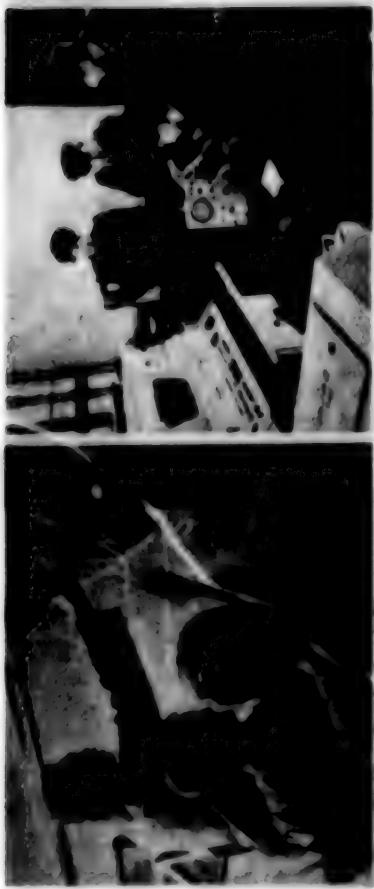
[Text] An unidentified guided missile technical school has been established and developed along with the growth of guided missile units. The school has set up many types of special courses and has trained personnel who are up to engineering-college levels, are familiar with weapons and equipment of guided missile units and are able to use, maintain and manage such weapons and equipment. In order to produce more results and turn out a greater number of personnel, they have used every possible means to improve the quality of teaching. Leadership cadres have often gone into teaching and research sections and classes to help resolve teaching problems. The instructors have made nothing of hardships to conscientiously teach and patiently give guidance in study. Administrative personnel and units in charge of training bore in mind the interest in teaching to make certain that teaching tasks were fulfilled. After its founding, the school trained a large number of specialized technical personnel and basic-level command cadres and provided them to the missile units.

# 访 导 弹 技 术 学 院



Using closed-circuit television to hold foreign language classes

(2)



(3)



(4)



(5)



Caption 2. Instructors enthusiastically provide guidance to students to help them resolve difficulties

Caption 3. Instructors assembling an electronic computer to provide even more equipment for teaching purposes

Caption 4. A student making a chemical analysis of the composition of guided missile propellant under an instructor's (right) guidance

Caption 5. Instructor using sand table to explain the problems of guided missile deployment



In the school hall, an instructor explains the structure and performance of a guided missile





**Explanations and demonstrations are being provided simultaneously to give the students a better understanding**

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## MILITARY AND PUBLIC SECURITY

### ORGANIZE TRAINING FROM THE NEEDS OF ACTUAL COMBAT

Beijing JIEFANGJUN HUABAO [LIBERATION ARMY PICTORIAL] in Chinese No 10, 1980 p 12

[Article by Wang Limin [3769 0448 3046] et. al.]

[Text] On extended rising and falling mountain terrain, Luo Xingyuan [5012 5281 0337], deputy commander of an antichemical warfare company in an unidentified unit, was leading the unit in training with flamethrowers. As one "fire dragon" after another laced into the mountain targets, the red glow lit up the darkened faces of the fighters.

The fighters are all familiar with Deputy Company Commander Luo Xingyuan's heroic character. In a fierce battle during the counterattack in self-defense against Vietnam, our fighters faced an enemy fire point in a concealed emplacement on a cliff. Luo Xingyuan had the assistant gunner support the flamethrower on his shoulder as Luo calmly fired, put the enemy out of action and ensured the victorious assault of the infantry. During that campaign, Luo Xingyuan at one time or another took out of action nine enemy fire points with his flamethrower. After training began, he told the fighters, "Don't fear fatigue or difficulties during peacetime and train in several more skills. Only in this way will you be resourceful and skilled in fighting when you arrive on the battlefield."

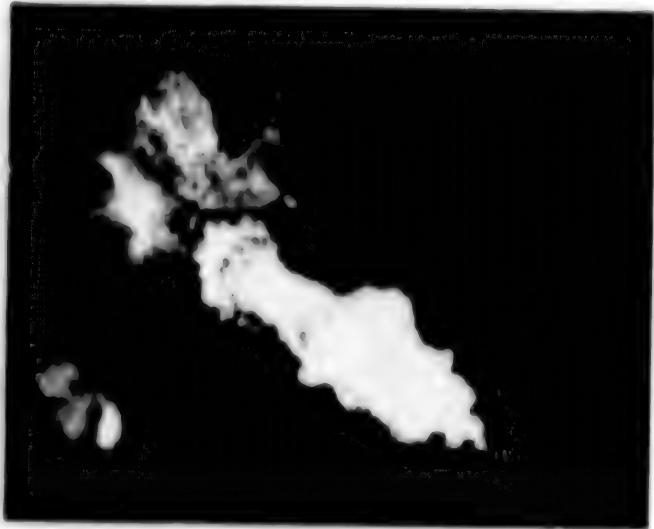
Disregarding his injured leg, he has clambered up one mountain after another with the fighters and through tough training developed skills in using flamethrowers against such targets as fire points halfway up mountains and on cliffs, trenches and bunkers. Under his leadership and influence, the antichemical warfare company's training has achieved good results. Once in a joint exercise with infantry, theirs were the first weapons to score hits in firing at 12 targets, including some in thick stands of grass, halfway up mountains and in trenches. The infantry comrades humorously said, The "Lord Fire God" is really something!



Explaining to fighters the essentials of using someone's shoulder as a rest for the flamethrower when firing at a target



Luo Xingyuan actively leading the fighters during training



Eliminating the "enemy" in a trench to cover the advance of comrades-in-arms

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## MILITARY AND PUBLIC SECURITY

### FIRST TRIP TO PACIFIC

Beijing JIEPANGJUN HUABAO [LIBERATION ARMY PICTORIAL] in Chinese No 10, Oct 80 pp 20-22

[Excerpt] It was the first spring of the 1980's when new China's naval force first rode the waves into the South Pacific as the hot equatorial sea breezes fluttered the bright-colored ensigns.

The huge waves of the Pacific billowed and the ships shook violently, sometimes listing more than 30 degrees.

The blazing sun was directly overhead, the decks were scorching hot and the temperature in the engine room reached more than 40°C. Faced with various tasks, the commanders were cool and calm in analyzing sea conditions and setting course correctly. Dedicated body and soul, the navigation cadre made careful observations and did their job conscientiously. The engine room crew braved high temperatures to stick to their posts in the heart of the vessels. Supply ships designed and built by China promptly provided the warships with fuel and water. The heroic people's navy feared no hardship or danger and went ahead proudly. It passed through straits, crossed the equator and left the first traces of the new China's fleet on the boundless Pacific.

The view out on the Pacific is so beautiful and so enchanting! There is the magnificent glow of sunset blazing with color. There are rare cloud formations in countless forms. Dolphins frolic, green turtles swim by playfully and startled flying fish skim over the surface of the water leaving ripples behind.



Training exercises being conducted for commanders at various levels while the ship is traveling on its course

(2)



(3)



(4)



(5)



Captions on following page



Caption 1. Training exercises being conducted for commanders at various levels while the ship is traveling on its course

Caption 2. Head of the navigation department and the chief of navigation conscientiously working on navigation charts to determine the ship's position.

Caption 3. Helmsman operates the automatic rudder by following the commander's instructions

Caption 4. Radio operators exerting efforts to get rid of interference to ensure unimpeded contact

Caption 5. Engineers conscientiously operating machinery to make sure it functions normally

Caption 6. Carrying out combined training in the south Pacific Ocean

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24 Nov. 1980

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